

# AUTHOR INDEX OF VOLUME 66\*

- Belegundu, A.D. and S.D. Rajan, A shape optimization approach based on natural design variables and shape functions (1) 87-106
- Chen, Y.-S., see Kim, S.-W. (1) 45-63
- Crisfield, M.A. and J. Wills, Solution strategies and softening materials (3) 267-289
- Crivelli, A.L., see Storti, M. (1) 65-86
- Elishakoff, I. and I. Lottati, Divergence and flutter of nonconservative systems with intermediate support (2) 241-250
- Elishakoff, I. and F. Pellegrini, Exact solutions for buckling of some divergence-type nonconservative systems in terms of Bessel and Lommel functions (1) 107-119
- Friberg, O., A set of parameters for finite rotations and translations (2) 163-171
- Fung, K.-Y., J. Tripp and B. Goble, Adaptive refinement with truncation error injection (1) 1-16
- Goble, B., see Fung, K.-Y. (1) 1-16
- Greenspan, D., Particle modeling of cavity flow on a vector computer (3) 291-299
- Guilard, H. and R. Peyret, On the use of spectral methods for the numerical solution of stiff problems (1) 17-43
- Hughes, T.J.R. and G.M. Hulbert, Space-time finite element methods for elastodynamics: Formulations and error estimates (3) 339-363
- Hulbert, G.M., see Hughes, T.J.R. (3) 339-363
- Idelsohn, S.R., see Storti, M. (1) 65-86
- Jacquotte, O.-P., A mechanical model for a new grid generation method in computational fluid dynamics (3) 323-338
- Kant, T., see Pandya, B.N. (2) 173-198
- Kim, S.-W. and Y.-S. Chen, A finite element computation of turbulent boundary layer flows with an algebraic stress turbulence model (1) 45-63
- Lakes, R.S., see Nakamura, S. (3) 257-266
- Lottati, I., see Elishakoff, I. (2) 241-250

\* The issue number is given in front of the page numbers.

- Malkus, D.S. and X. Qiu, Division structure of finite element eigenproblems arising from negative and zero masses (3) 365 – 368
- Nakamura, S. and R.S. Lakes, Finite element analysis of stress concentration around a blunt crack in a Cosserat elastic solid (3) 257 – 266
- Ong, T.-G., G.I.N. Rozvany and W.-T. Szeto, Least-weight design of perforated elastic plates for given compliance: Nonzero Poisson's ratio (3) 301 – 322
- Pandya, B.N. and T. Kant, Flexural analysis of laminated composites using refined higher-order  $C^0$  plate bending elements (2) 173 – 198
- Pellegrini, F., see Elishakoff, I. (1) 107 – 119
- Peyret, R., see Guillard, H. (1) 17 – 43
- Qiu, X., see Malkus, D.S. (3) 365 – 368
- Rajan, S.D., see Belegundu, A.D. (1) 87 – 106
- Rozvany, G.I.N., see Ong, T.-G. (3) 301 – 322
- Simo, J.C. and L. Vu-Quoc, On the in space dynamics of finite-strain rods undergoing large motions – a geometrically exact approach formulation (2) 199 – 229
- Simo, J.C. and L. Vu-Quoc, On the dynamics of finite-strain rods undergoing large motions – a geometrically exact approach (2) 125 – 161
- Storti, M., A.L. Crivelli and S.R. Idelsohn, An efficient tangent scheme for solving phase-change problems (1) 65 – 86
- Szeto, W.-T., see Ong, T.-G. (3) 301 – 322
- Tripp, J., see Fung, K.-Y. (1) 1 – 16
- Vahdani, B. and L.C. Wellford Jr., A singular perturbation-finite element procedure for the analysis of structures with a small bending rigidity (2) 221 – 240
- Vu-Quoc, L., see Simo, J.C. (2) 125 – 161
- Wellford, L.C., see Vahdani, B. (2) 221 – 240
- Wills, J., see Crisfield, M.A. (3) 267 – 289

## SUBJECT INDEX OF VOLUME 66\*

### *Coupled problems*

- On the use of spectral methods for the numerical solution of stiff problems,  
H. Guillard and R. Peyret (1) 17 - 43

### *Dynamics*

- On the dynamics in space of finite-strain rods undergoing large motions - a  
geometrically exact approach, J.C. Simo and L. Vu-Quoc (2) 125 - 161  
Divergence and flutter of nonconservative systems with intermediate support,  
I. Elishakoff and I. Lottati (2) 241 - 250  
Particle modeling of cavity flow on a vector computer, D. Greenspan (3) 291 - 299  
Space-time finite element methods for elastodynamics: Formulations and error  
estimates, T.J.R. Hughes and G.M. Hulbert (3) 339 - 363  
Division structure of finite element eigenproblems arising from negative and  
zero masses, D.S. Malkus and X. Qiu (3) 365 - 368

### *Elasticity*

- A shape optimization approach based on natural design variables and shape  
functions, A.D. Belegundu and S.D. Rajan (1) 87 - 106  
Exact solutions for buckling of some divergence-type nonconservative systems  
in terms of Bessel and Lommel functions, I. Elishakoff and F. Pellegrini (1) 107 - 119  
Flexural analysis of laminated composites using refined higher-order  $C^0$  plate  
bending elements, B.N. Pandya and T. Kant (2) 173 - 198  
A singular perturbation-finite element procedure for the analysis of structures  
with a small bending rigidity, B. Vahdani and L.C. Wellford, Jr. (2) 221 - 240  
Divergence and flutter of nonconservative systems with intermediate support,  
I. Elishakoff and I. Lottati (2) 241 - 250  
Finite element analysis of stress concentration around a blunt crack in a  
Cosserat elastic solid, S. Nakamura and R.S. Lakes (3) 257 - 266  
Least-weight design of perforated elastic plates for given compliance: Nonzero  
Poisson's ratio, T.-G. Ong, G.I.N. Rozvany and W.-T. Szeto (3) 301 - 322

\* The issue number is given in front of the page numbers.



*Finite difference methods*

- Adaptive refinement with truncation error injection, K.Y. Fung, J. Tripp and B. Goble (1) 1 – 16
- Particle modeling of cavity flow on a vector computer, D. Greenspan (3) 291 – 299
- Space-time finite element methods for elastodynamics: Formulations and error estimates, T.J.R. Hughes and G.M. Hulbert (3) 339 – 363

*Finite element and matrix methods*

- A finite element computation of turbulent boundary layer flows with an algebraic stress turbulence model, S.-W. Kim and Y.-S. Chen (1) 45 – 63
- An efficient tangent scheme for solving phase-change problems, M. Storti, A.L. Crivelli and S.R. Idelsohn (1) 65 – 86
- On the dynamics in space of finite-strain rods undergoing large motions – a geometrically exact approach, J.C. Simo and L. Vu-Quoc (2) 125 – 161
- Flexural analysis of laminated composites using refined higher-order  $C^0$  plate bending elements, B.N. Pandya and T. Kant (2) 173 – 198
- A singular perturbation-finite element procedure for the analysis of structures with a small bending rigidity, B. Vahdani and L.C. Wellford, Jr. (2) 221 – 240
- Finite element analysis of stress concentration around a blunt crack in a Cosserat elastic solid, S. Nakamura and R.S. Lakes (3) 257 – 266
- Division structure of finite element eigenproblems arising from negative and zero masses, D.S. Malkus and X. Qiu (3) 365 – 368
- Solution strategies and softening materials, M.A. Crisfield and J. Wills (3) 267 – 289

*Fluid mechanics*

- Adaptive refinement with truncation error injection, K.-Y. Fung, J. Tripp and B. Goble (1) 1 – 16
- On the use of spectral methods for the numerical solution of stiff problems, H. Guillard and R. Peyret (1) 17 – 43
- A finite element computation of turbulent boundary layer flows with an algebraic stress turbulence model, S.-W. Kim and Y.-S. Chen (1) 45 – 63
- Particle modeling of cavity flow on a vector computer, D. Greenspan (3) 291 – 299
- A mechanical model for a new grid generation method in computational fluid dynamics, O.-P. Jacquotte (3) 323 – 338

*Fracture mechanics*

- Finite element analysis of stress concentration around a blunt crack in a Cosserat elastic solid, S. Nakamura and R.S. Lakes (3) 257 – 266

*Heat and diffusion*

- An efficient tangent scheme for solving phase-change problems, M. Storti,  
A.L. Crivelli and S.R. Idelsohn (1) 65 – 86

*Kinematics*

- A set of parameters for finite rotations and translations, O. Friberg (2) 163 – 171

*Nonconservative loads*

- Exact solutions for buckling of some divergence-type nonconservative systems  
in terms of Bessel and Lommel functions, I. Elishakoff and F. Pellegrini (1) 107 – 119  
Divergence and flutter of nonconservative systems with intermediate support,  
I. Elishakoff and I. Lottati (2) 241 – 250

*Nonlinear mechanics*

- Exact solutions for buckling of some divergence-type nonconservative systems  
in terms of Bessel and Lommel functions, I. Elishakoff and F. Pellegrini (1) 107 – 119  
Divergence and flutter of nonconservative systems with intermediate support,  
I. Elishakoff and I. Lottati (2) 241 – 250  
Solution strategies and softening materials, M.A. Crisfield and J. Wills (3) 267 – 289

*Numerical solution procedures*

- On the use of spectral methods for the numerical solution of stiff problems,  
H. Guillard and R. Peyret (1) 17 – 43  
Solution strategies and softening materials, M.A. Crisfield and J. Wills (3) 267 – 289  
A mechanical model for a new grid generation method in computational fluid  
dynamics, O.-P. Jacquotte (3) 323 – 338

*Optimization*

- A shape optimization approach based on natural design variables and shape  
functions, A.D. Belegundu and S.D. Rajan (1) 87 – 106  
Least-weight design of perforated elastic plates for given compliance: Nonzero  
Poisson's ratio, T.-G. Ong, G.I.N. Rozvany and W.-T. Szeto (3) 301 – 322

*Phase changes*

- An efficient tangent scheme for solving phase-change problems, M. Storti,  
A.L. Crivelli and S.R. Idelsohn (1) 65 – 86

*Plasticity*

- A framework for finite strain elastoplasticity based on maximum plastic dissipation and the multiplicative decomposition: Part I. Continuum formulation, J.C. Simo (2) 199 – 219

*Shells and plates*

- Flexural analysis of laminated composites using refined higher-order  $C^0$  plate bending elements, B.N. Pandya and T. Kant (2) 173 – 198
- A singular perturbation-finite element procedure for the analysis of structures with a small bending rigidity, B. Vahdani and L.C. Wellford Jr. (2) 221 – 240
- Least-weight design of perforated elastic plates for given compliance: Nonzero Poisson's ratio, T.-G. Ong, G.I.N. Rozvany and W.-T. Szeto (3) 301 – 322

*Singularity methods*

- A singular perturbation-finite element procedure for the analysis of structures with a small bending rigidity, B. Vahdani and L.C. Wellford Jr. (2) 221 – 240

*Stability in structural mechanics*

- Exact solutions for buckling of some divergence-type nonconservative systems in terms of Bessel and Lommel functions, I. Elishakoff and F. Pellegrini (1) 107 – 119
- Divergence and flutter of nonconservative systems with intermediate support, I. Elishakoff and I. Lottati (2) 241 – 250

*Structural mechanics*

- A shape optimization approach based on natural design variables and shape functions, A.D. Belegundu and S.D. Rajan (1) 87 – 106
- On the dynamics in space of finite-strain rods undergoing large motions – a geometrically exact approach, J.C. Simo and L. Vu-Quoc (2) 125 – 161
- Flexural analysis of laminated composites using refined higher-order  $C^0$  plate bending elements, B.N. Pandya and T. Kant (2) 173 – 198
- A singular perturbation-finite element procedure for the analysis of structures with a small bending rigidity, B. Vahdani and L.C. Wellford Jr. (2) 221 – 240
- Solution strategies and softening materials, M.A. Crisfield and J. Wills (3) 267 – 289

*Viscous flow*

- A finite element computation of turbulent boundary layer flows with an algebraic stress turbulence model, S.-W. Kim and Y.-S. Chen (1) 45 – 63

